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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Yao Yiming et al.

Serial No.: 09/585,166

Art Unit:

Filed: June 1, 2000

Examiner:

For: Non-Homogeneous Systems for the Resolution of Enantiomeric Mixtures

Assistant Commissioner for Patents
Box IDS
Washington, DC 20231

June 8, 2001

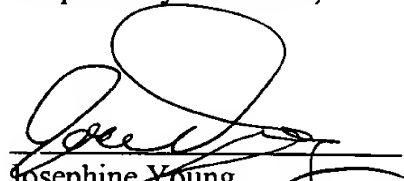
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Respectfully submitted,


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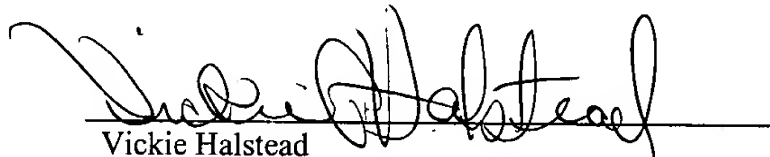
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INFORMATION DISCLOSURE STATEMENT
U.S.S.N. 09/585,166
Filed June 1, 2000
Docket No. 04674.105060 (ALTUS)

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/585,166
				Filing Date	June 1, 2000
				First Named Inventor	Yao Yiming <i>et al.</i>
				Group Art Unit	
				Examiner Name	
Sheet	1	of	5	Attorney Docket Number	04674.105060 (ALTUS)

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	AA	4,800,162		Matson	01-24-1989	
	AB	5,041,449		Belleau <i>et al.</i>	08-20-1991	
	AC	5,047,407		Belleau <i>et al.</i>	09-10-1991	
	AD	5,057,427		Wald <i>et al.</i>	10-15-1991	
	AE	5,204,466		Liotta <i>et al.</i>	04-20-1993	
	AF	5,210,085		Liotta <i>et al.</i>	05-11-1993	
	AG	5,248,776		Chu <i>et al.</i>	09-28-1993	
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	AI	5,466,806		Belleau <i>et al.</i>	11-14-1995	
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	AAA	5,914,331		Liotta <i>et al.</i>	06-22-1999	

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Sheet

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of

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Application Number	09/585,166
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First Named Inventor	Yao Yiming <i>et al.</i>
Group Art Unit	
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Attorney Docket Number	04674.105060 (ALTUS)

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	BA	5,914,400		Liotta <i>et al.</i>	06-22-1999	
	BB	5,922,867		Mansour <i>et al.</i>	07-13-1999	

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Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number	Kind Code ² (if known)				
	BC	WO	91/11186	A1	Emory University	08-08-1991		
	BD	WO	91/17159	A1	IAF BioChem Internatl	11-14-1991		
	BE	WO	92/02617	A1	Vertex Pharmaceuticals	02-20-1992		
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	BL	WO	97/44445	A1	Altus Biologics	11-27-1997		
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	BO	EP	0 382 526	A2	IAF BioChem Internatl	08-16-1990		
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	BR	EP	0 515 156	A1	BioChem Pharma	11-25-1992		
	BS	EP	0 526 253	A1	BioChem Pharma	02-03-1993		
	BT	EP	0 711 771	A2	BioChem Pharma	05-15-1996		
	BU	EP	0 872 237	A1	Emory University	10-21-1998		
	BV	JP	08092269a		Izumi	04-09-1996		

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				Attorney Docket Number	04674.105060 (ALTUS)
Sheet	3	of	5		

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	CA	ARIENTE-FLICHE <i>et al.</i> , "How to Synthesize Easily Dimethyl (2R) and (2S)-Formylcyclopropane-1,1-Dicarboxylate, a Precursor of a Wide Variety of Substituted Aminocyclopropanecarboxylic Acids," <i>Synth. Commun.</i> 1992 , 22 (8), 1149-1153.		
	CB	BASAVIAH <i>et al.</i> , "Enantioselective synthesis using crude enzymes," <i>Pure and Appl. Chem.</i> , 1992 , 64 (8), 1067-1072.		
	CC	BASAVIAH <i>et al.</i> , "Enantioselective Synthesis of (1R,2R)- and (1S,2S)-2-Nitroxycyclohexan-1-ols," <i>Tetrahedron: Asymmetry</i> , 1996 , 7 (1), 13-16.		
	CD	BELLEAU <i>et al.</i> , "Oxidative Degradation of L-Ascorbic Acid Acetals to 2',3'-Dideoxy-3'-Oxaribofuranoside. Synthesis of Enantiomerically Pure 2',3'-Dideoxy-3'-Oxacytidine Stereoisomers as Potential Antiviral Agents," <i>Tetrahedron Letters</i> , 1992 , 33 (46), 6949-6952.		
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	CH	HOONG <i>et al.</i> , "Enzyme Mediated Enantioselective Preparation of Pure Enantiomers of the Antiviral Agent 2',3'-Dideoxy-5-fluoro-3'-thiacytidine (FTC) and Related Compounds," <i>J. Org. Chem.</i> , 1992 , 57, 5563-5565.		
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	CK	JONES, "Illustrative Examples of Enzymes in Organic Synthesis," 1986 , 3-14.		

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	DA	JONES, "Probing the specificity of synthetically useful enzymes," <i>Can. J. Chem.</i> , 1993, 71, 1273-1282.	
	DB	KRAUS <i>et al.</i> , "Synthesis of New 2,5-Substituted 1,3-Oxathiolanes. Intermediates in Nucleoside Chemistry," <i>Synthesis</i> , November 1991, 1046-1048.	
	DC	LANLONDE <i>et al.</i> , "Cross-Linked Crystals of <i>Candida rugosa</i> Lipase: Highly Efficient Catalysts for the Resolution of Chiral Esters," <i>J. Am. Chem. Soc.</i> , 1995, 117 (26), 6845-6852.	
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	DI	PROVENCER <i>et al.</i> , "Enzymes in Organic Synthesis 51. Probing the Dimensions of the Large Hydrophobic Pocket of the Active Site of Pig Liver Esterase," <i>Tetrahedron: Asymmetry</i> , 1993, 4 (9), 2025-2040.	
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	DL	SIH <i>et al.</i> , "Resolution of Enantiomers via Biocatalysis," <i>Topics in Stereochemistry</i> , 1989, 63-125.	

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	EA	TOONE <i>et al.</i> , "Enzymes in Organic Synthesis 49. Resolution of Racemic Monocyclic Esters with Pig Liver Esterase," <i>Tetrahedron: Asymmetry</i> , 1991, 2 (3), 207-222.	
	EB	TOONE <i>et al.</i> , "Enzymes in Organic Synthesis 50. Probing the Dimensions of the Large Hydrophobic Binding Region of the Active Site of Pig Liver Esterase Using Substituted Aryl Malonate Substrates," <i>Tetrahedron: Asymmetry</i> , 1991, 2 (10), 1041-1052.	
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